

FEB. 1987. #15 A\$1.00. J.C.E.D'Alton. 39 Agnes St., TOOWONG. QLD. 4066.

AUSTRALIA.

# Editorial

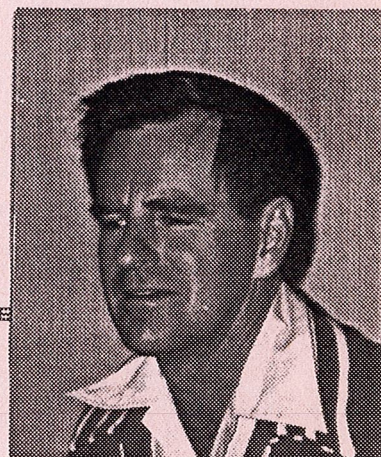
Greetings ODPs,

I hope that you all did have a pleasant and peaceful festive season. The one thing that we miss is the absence of the threepences and sixpences that used to be found in the Christmas puddings. The advent of decimal currency with the new coin material put an end to that, sorry to say. You young ODPs, ask your Mum and Dad about that.

My Christmas Gathering grew to a Mini-Expo, as I advertised it in the Brisbane Courier Mail. The invitation was for ODPs and any interested folk to attend. The day was a great success so a report is on page 10. If any ODP held a similar get-together, no matter how small, please send in a little write-up about it.

Some of us think that we should hold more frequent gatherings or workshops. Mr. Bob Kitch is willing to help or fully conduct such meetings. This I am willing to assist folk with, but I do not have the time to impliment myself. What do YOU think??? Please let me know. Bob suggests in a month or so time.

A little bad news for all is that I am increasing the price of LE'VZ 200/300 ODP to A\$2.00. per copy from issue #16. \$1.00. has been the price from the first issue nearly two years ago. The last few issues(#8 to #14) I have been subsidising by about \$50.00 per print run. This I cannot continue to do. Of course most of you would realise that I spend a lot of time printing LE'VZ, but that I am only too happy to do. Bringing news, help and so on to ODPs is very gratifying.



This will commence with #16, about June 1987. ODPs who have credit between \$1.00. and \$2.00. at that time will still receive #16 LE'VZ.

The good news is that future LE'VZs will contain more pages, and now that I can print in compressed mode, there will be more information contained therein.

I have had few comments on the new format of #14, but I guess "no news is good news". On page 9 are the new instructions/suggestions for contributors and ODPs. Also would those ODPs who have not previously filled out a DATA FORM please do so. It is on page 12.

From LE'VZ #16 this newsletter will be referred as a magazine, -- LE'VZ magazine --. It will be the best in the southern hemisphere with YOUR help.

I am sorry to say that most of the present personal computer magazines are no longer aimed at the "personal computer" market, rather the big dollar "business" market.

GOD BLESS to all, and may your EASTER be a joyious time.  
John and Marie D'Alton.



This contribution by Mr.A Seeger of MONBULK.

The other commands are <ERA> to erase a file, data or programme. <DIR> is to view/print the directory of files on the disc. <REN> is to rename a file. <DCOPY> to copy a disc to another disc. Before a disc is to be used, it must be initialised <INIT>.

Commands for data programming are:-

<OPEN> to open a file, <CLOSE> to close a file, <IN#> to read a file, <PR#> to write to the file.

Finally, if two disc drives are in use, the drive must be selected as <DRIVE1> or <DRIVE2>.

(Ed.)

BLOAD--:

Eg:-BLOAD"FILENAME"

You do not need the hex addresses for this command. This will load any binary program from disk, if it is a program like the WORD PROCESSOR it will not work because it needs to run instantly, if you type RUN after you load it your VZ will lock up because it needs to have a starting address. If you are loading a screen its as easy as typing BLOAD"FILENAME", of course if it is a hi-res screen you will need to type in the hi-res command before you load the screen. Eg:-

10

MODE(1):BLOAD"FILENAME":FORX=1TO5000:NEXT , and you will have your screen in

about 3 to 5 seconds.

BRUN--:

Eg:-BRUN"FILENAME"

This command will instantly run any binary program from disk. If you try and run a screen loading the VZ will lock up because it will be looking for a machine language (assembly) program in memory which of course wont be there. You will have no worries running a program like the WORD PROCESSOR or any other M/I program with this command.

Well that just about raps it up, if you have any queries please do not hesitate to write to me. My address is:-

Andrew Seeger  
C/-Monbulk P.O.  
Monbulk, Vic, 3793

Dear VZ-USERS, I recently aquired a disk drive system for my VZ-300, and due to a conversation with Scott Le Brun not long ago he asked me to write about 3 disk commands in particular, these commands are:-BSAVE, BLOAD and BRUN. Let us have a look at these commands one by one.

BSAVE--:This command allows you to save any part of memory that you want, but first you must know the hexadecimal start and end addresses of where you want to save.

Eg:-BSAVE"FILENAME",xxxx,xxxx

This will save the entire locations of from xxxx to xxxx. This command is particularly useful for saving VZ screens, yes you heard right, I did not even know of this until about 3 weeks after I got my disk drive.

To save a screen to disk is very easy but there is a bit of work beforehand. First you have to write your program (unless you already have a program written) to draw the screen and the last instruction should be BSAVE"FILENAME",xxxx,xxxx

The hexadecimal addresses for saving the VZ screens are:-7000 hex (28672 dec) and 71FF hex (29183 dec) for mode(0) (text mode) and 7000 hex (28672 dec) and 77FF hex (30719 dec) for mode(1) (graphics mode). I recently got hold of a copy of the program LEARNJET and I found that it took too long to start because of the long intro, you guessed it, I saved the screen and now instead of taking 15 to 20 seconds to run the intro it now takes just under 4 seconds WOW!

"I hope this plane doesn't travel faster than sound", said the old lady to the stewardess.

"Why?"

"Because my friend and I want to talk, that's why."



Le/VZ Statement	VSM
Cheque Ledger	VSM
Cash Book Ledger	VSM
Le/VZ D'base	VSM
Database VZ	VSM
Mailing List	VSM

Matrix Conversion	LVS
Radio Selector	LVS
Check Record	LVS
Master Finance	LVS
Speed & Accuracy	LVS
Lemonade Stand	LVS
Study Aid	LVS
Card File	LVS
Decision Evaluation	LVS

Mailing List	DSE
Portfolio Management	DSE
Discounted Cashflow	DSE
Financial Cashflow	DSE
Word Processor	DSE
Matrix	DSE
Data Base	DSE
Word Processor	DAM
Data Master	DAM
Address Book	DAM

```

Super World Processor  BRD
*****
UTILITY                 PROG
*****

```

VZ Extended Basio	WSM
Protect	WSM
Comrase/Daletta/Renum	WSM
Monitor / Debasser	WSM
Extended Basic	WSM
Array / Restore	WSM
File Search	WSM
Copy / Protect	WSM
Dico Guard	WSM

Colour Graphics	PAM
Search Tape	VSM
Load XX80 Files	VSM
VZerson Print Patch	VSM
Disk Copy	VSM
Disassembler	VSM
Utilities	VSM
Weaving Drafts	VSM
Editor Assembler	VSM
Colour Graphics	VSM

VZ - Mon 80	LVS
Program Copier	CEL
Screen Drawer	CEL
Hackers Delisht	CEL
Introduction to Basis	DSE
Hex Utilities	DSE
Disassembler	DSE
Editor Assembler	DSE
Script Generator	DSE

VZ Extra Commands	LEH
Monitor Debussan	MOB
Renumber Merge	MOB
Word Processor	DAM
Program Copier	SAR

VZ Debuss Graphics Pack	MIL MIL
Retrieval Program	ERO
Copier	SUN

[illegible]

COB	Cosmic
DAM	L Dawson
HIR	John Hirst
MCC	G McLeary
MLL	R S Miller
LOW	B Low
CAR	Adam Carter
RHO	Chris Rhodes
PAM	Pam Software
TAI	Lee Tait
SAR	N Sarafoudis
LEH	G Lehman
WOB	W Obriest
BJE	S Bjelle
APF	APF Software
SOR	J L Sorlland
SUN	E Sundstrup
BRO	G Brownell

Total Software Advertised as  
at DECEMBER 1986

Some Software companies and writers have now closed or are distributing under other names.

J. Dalton is also VSOFTWAREZ

LYSCO [Leon Youngs Software] to stop selling VZ software as of 31 July 1986 , But as yet no word of who will take over sales and distribution

N. Sarafoudis also CELESTRON

COSMIC acquired by DSE

R. S. Miller closed down

This list is as complete as current information shows.

lost to the future groups of authors, it would be an advantage to have a central library to hold a copy of these programs so that once the Distributor leaves the marketplace the Central Library would then be able to provide future clients with programs without contravening Copyright.

I have been forced to try and improve the supply and delivery of software orders as along with a number of other users the SERVICE from suppliers has been rather lax. I would like to hear from any person who has either new or old software that is not listed here, And also from anyone who has copies of the lesser known programs.

I am prepared to act as a central distribution point for any software from the current suppliers, on the same terms as they advertise.

Any new products will only help to expand the usefulness of the VZ computer and any advice must contain Name and Address of Writer or Distribution so this catalogue can be updated

Any update or correction to the above listings please forward to :-

Eddie Tomas  
3 Kilkenry st. Capalaba Qld.

Telephone 07- 3902797

Compiled in July 1986 and  
updated December 1986



# + + GRID IRON + +

## BY SCOTT LE BRUN

### CONCLUSION

```

2150 PRINT@83,VSR
2160 RETURN
2170 PRINT@195,"!!!! OOPS , I FUMLED !!!!!: SOUND30,1:DN=1:YDS=10
2180 IFQTR=10RQTR=3,C$=Y$ELSEC$=M$
2190 RETURN
2200 PRINT@200,"!!!! SAFETY !!!!!:DN=1:YDS=10
2210 IFQTR=10RQTR=3,NPS=25:OPS=25:C$=Y$ELSENPS=55:OPS=55:C$=M$
2220 VSR=VSR+2
2230 PRINT@89,VSR
2240 RETURN
2250 PRINT@198,"!!!! TOUCHDOWN !!!!!:DN=1:YDS=10
2260 IFQTR=10RQTR=3,NPS=25:OPS=25:C$=Y$ELSENPS=55:OPS=55:C$=M$
2270 HSR=HSR+7
2280 PRINT@78,HSR
2290 RETURN
2300 FORA=31TO5STEP-1: SOUNDAA,1:NEXT
2310 PRINT@197,"!!!! GOOD PUNT !!!!!:DN=1:YDS=10
2320 IFQTR=10RQTR=3,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2330 IFQTR=10RQTR=3,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2340 IFQTR=20RQTR=4,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2350 OPS=NPS
2360 RETURN
2370 FORA=31TO5STEP-1: SOUNDAA,1:NEXT
2380 PRINT@197,"!!!! GOOD PUNT !!!!!:DN=1:YDS=10
2390 IFQTR=10RQTR=3,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2400 IFQTR=10RQTR=3,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2410 IFQTR=20RQTR=4,NPS=OPS+20:C$=M$ELSENPS=OPS+20:C$=Y$
2420 OPS=NPS
2430 RETURN
2440 IFQTR=20RQTR=4,2520
2450 Z=0:IFNPS<25ANDRWK9,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2455 IFZ=1,C$=M$:GOTO2590
2460 Z=0:IFNPS<30ANDRWK7,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2465 IFZ=1,C$=M$:GOTO2590
2470 Z=0:IFNPS<35ANDRWK5,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2475 IFZ=1,C$=M$:GOTO2590
2480 Z=0:IFNPS<38ANDRWK4,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2485 IFZ=1,C$=M$:GOTO2590
2490 PRINT@193,OM$
2500 IFNPS<55,NPS=55:OPS=55
2510 GOTO2610
2520 Z=0:IFNPS<25ANDRWK9,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2525 IFZ=1,C$=Y$:GOTO2590
2530 Z=0:IFNPS<30ANDRWK7,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2535 IFZ=1,C$=Y$:GOTO2590
2540 Z=0:IFNPS<35ANDRWK5,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2545 IFZ=1,C$=Y$:GOTO2590
2550 Z=0:IFNPS<38ANDRWK4,PRINT@193,OM$:DN=1:YDS=10:VSR=VSR+3:Z=1
2555 IFZ=1,C$=Y$:GOTO2590
2560 PRINT@193,OM$
2570 IFNPS<25,NPS=25:OPS=25
2580 GOTO2610
2590 GOSUB3190:PRINT@89,VSR
2600 IFQTR=10RQTR=3,NPS=55:OPS=55ELSENPS=25:OPS=25
2610 RETURN
2620 IFQTR=20RQTR=4,2690
2630 Z=0:IFNPS<25ANDRWK9,PRINT@193,OM$:DN=1:YDS=10:HSR=HSR+3:Z=1
2635 IFZ=1,C$=Y$:GOTO2750
2640 Z=0:IFNPS<30ANDRWK7,PRINT@193,OM$:DN=1:YDS=10:HSR=HSR+3:Z=1
2645 IFZ=1,C$=Y$:GOTO2750
2650 Z=0:IFNPS<35ANDRWK5,PRINT@193,OM$:DN=1:YDS=10:HSR=HSR+3:Z=1
2655 IFZ=1,C$=Y$:GOTO2750
2660 Z=0:IFNPS<38ANDRWK4,PRINT@193,OM$:DN=1:YDS=10:HSR=HSR+3:Z=1
2665 IFZ=1,C$=Y$:GOTO2750
2670 PRINT@193,OM$
2680 IFNPS<25,NPS=25:OPS=25
2690 GOTO2770
2700 Z=0:IFNPS<55ANDRWK9,PRINT@193,OM$:DN=1:YRD=10:HSR=HSR+3:Z=1
2705 IFZ=1,C$=M$:GOTO2750
2710 Z=0:IFNPS<50ANDRWK7,PRINT@193,OM$:DN=1:YRD=10:HSR=HSR+3:Z=1
2715 IFZ=1,C$=M$:GOTO2750
2720 PRINT@193,OM$
2730 IFNPS<55,NPS=55:OPS=55
2740 GOTO2770
2750 PRINT@78,HSR
2760 IFQTR=10RQTR=3,NPS=25:OPS=25ELSENPS=55:OPS=55
2770 RETURN
2780 YLN=(NPS-15)*2
2790 IFYLN>50,YLN=100-YLN
2800 RETURN
2810 IFPOSI=10RPOSI=2,PRINT@198,"NO GAIN ON THE PLAY":RETURN
2815 PRINT@200,"INCOMPLETE PASS"
2820 RETURN
2830 IFPOSI=10RPOSI=2,PRINT@197,"GAIN OF"YRD(RW,POSI):
2835 IFPOSI=10RPOSI=2,PRINT"ON THE PLAY":RETURN
2840 PRINT@194,"PASS COMPLETED FOR"YRD(RW,POSI)"YARDS"
2850 RETURN
2860 IFPOSI=10RPOSI=2,PRINT@197,"LOSS OF"ABS(YRD(RW,POSI)):
2865 IFPOSI=10RPOSI=2,PRINT"ON THE PLAY":RETURN
2870 PRINT@193,"QUARTERBACK SACKED:LOSS OF"ABS(YRD(RW,POSI)):
2880 RETURN
2890 QTR=QTR+1:PLS=1:GOSUB5500:GOSUB5400
2900 PRINT@23,"END OF HALF":GOSUB3190:QTR=QTR+1:PRINT@83,QTR
2910 IFHOLD$="K",KR$="R"ELSEKR$="K"
2920 GOSUB6400:IFPOS$="H",PRINT@33,"IT'S YOUR"ELSEPRINT@33,"IT'S MY"
2930 PRINT@65,"BALL ON THE":PRINT@97,YLN:PRINT@101,"YRD LINE"
2940 RETURN
2950 PLS=0:GOSUB5500:GOSUB5400:PRINT@33,"END OF"
2960 PRINT@65,"QUARTER":GOSUB3340:NPS=90-OPS:OPS=NPS:QTR=QTR+1
2970 GOSUB6400:IFPOS$="H",PRINT@33,"IT'S YOUR"ELSEPRINT@33,"IT'S MY"
2980 PRINT@65,"BALL ON THE":PRINT@97,YLN:PRINT@101,"YRD LINE"
2990 RETURN
3000 CLS:GOSUB370
3010 PRINT@33,"TIME IS UP: THE GAME IS OVER"
3020 IFHSR>VSR,PRINT@161,"YOU LOST BY A SCORE
3030 PRINT@193,"OF"HSR"TO"VSR
3040 IFHSR>VSR,PRINT@257,"BETTER LUCK NEXT TIME"
3050 IFVSR>HSR,PRINT@161,"YOU WON BY A SCORE
3060 PRINT@193,"OF"VSR"TO"HSR
3070 IFVSR>HSR,PRINT@257,"CONGRATULATIONS !!!"
3080 PRINT@385,"WOULD YOU LIKE TO PLAY AGAIN?"
3090 PRINT@417,"(Y/N)"
3100 IFINKEY$<>"",2970
3110 ANS$=INKEY$:IFANS$="Y",2980
3120 IFANS$="Y",RESTORE:GOTO340
3130 IFANS$<>"N",2980
3140 CLS:END
3020 DATA 0,2,14,10,0,2,98,0,0,40,8,4,8,4,99,-2,-4,0,99,0,0,10
3030 DATA 0,6,50,0,0,6,12,0,0,4,-2,-8,18,0,0,16,-2,0,99,14,30,6
3040 DATA 0,0,2,0,4,2,0
3050 DATA 0,2,14,10,0,2,98,0,0,40,8,4,8,4,99,-2,-4,0,99,0,0,10
3060 DATA 0,6,50,0,0,6,12,0,0,4,-2,-8,18,0,0,16,-2,0,99,14,30,6
3070 DATA 0,0,2,0,4,2,0
3080 SOUND16,3:18,2:20,3:20,1:20,2:18,1:20,2:21,5:20,3:20,2:18,3
3090 SOUND18,1:18,2:16,2:18,2:20,3:16,2:16,3:18,2:20,3:20,1:20,2

```

```

3150 SOUND18,1:20,3:21,3:23,3:25,5:25,4:23,3:21,2:20,3:18,2:16,5
3180 RETURN
3190 SOUND19,1:19,1:19,2:19,1:19,1:19,2:19,1:24,2:26,2
3200 SOUND28,2:24,1:28,1:31,5:29,1:26,1:24,2:28,2:24,5
3310 RETURN
3320 RETURN
3330 RETURN
3340 SOUND11,1:11,1:11,1:11,7:7,9,1:9,1:9,1:6,7
3350 FORI=1TO2:SOUND11,1:11,1:11,1:11,7:7,1:12,1:12,1:11,1
3360 SOUND 19,1:19,1:19,1:16,4:8,1:16,4:8,1:16,4:8,1:23,1:21,1
3370 FORI=1TO2:SOUND19,4:18,1:23,1:21,1:16,4:23,6
3410 RETURN
3420 SOUND5,1
3440 RETURN
3450 PRINT@130,"[REDACTED]":PRINT@164,"[REDACTED]":SOUND@0,1
3450 TM=1:RETURN
64000 IF TM=1,P=97:TM=0:ELSEP=161
64010 FORI=33TO33STEP32:PRINT@1,"
65000 PRINT@193,"
";NEXT:RETURN
";RETURN

```

VZ

### \*\* OTC MINERVA. \*\*

It has been alleged that 'hackers' have been/are using the system to not only leave obscene messages in various places but also charging computer connect time to other users. This is a grave problem. Imagine what is possible if these actions are directed to the banking system. Any lock made by man can be broken by man. I suggest you keep a close eye on your banking facilities.

J.D.

### \*\*\* THANKS. \*\*\*

I thank the DOPs and others who do write and ring me. I always enjoy hearing from you one way or the other. The letters I usually read three or four times. Please enclose a S.A.S. Envelope if you require an answer. Please do NOT 'phone on Sundays. If you 'phone and hear our 'phone answering unit, please leave a short message including name and 'phone number.

Don't forget your STD. area code, as I am not a mind reader, if you are out of Brisbane

### DISC PROGRAMMING.

Mr.H Huggins of 12 Thomas St., MITCHAM. VIC. 3132. sent this portion of his Data Base programme in which should be very helpful to Disc System users.

```

1100 REM CHANGE FILENAME
1110 CLS:PRINT"ENTER FILENAME (7 LETTERS EXACTLY":INPUTF$
1112 IF LEN(F$)<>7THEN1110
1114 PRINT"CHANGING FILENAME":PRINT:PRINTTAB(10)"W-A-I-T"
1116 FORA=-30700TO-29400
1118 IF PEEK(A)=94AND PEEK(A-1)=34THEN1122
1120 NEXT:GOTO70
1122 FORB=1TO7:POKEA+B,ASC(MID$(F$,B,1)):NEXT:GOTO1120
1150 F$="^D.3-324":RETURN
1160 CLS:PRINT:PRINT:PRINT"SAVING"
1165 INPUT"PREPARE DISK<<HIT RETURN>>";Q
1170 DIR:INPUT"TO RETURN TO MENU TYPE<<M>>";Q$:IFQ$="M"THEN70
1175 CLS:PRINT"P="P
1180 PRINT:PRINT:PRINT"S-A-V-I-N-G"
1185 OPEN"^D.3-324",1:GOSUB1230:FORI=CTOD
1190 PR#"^D.3-324",P$(I):NEXT:CLOSE"^D.3-324":GOTO70
1200 REM LOADING
1201 CLS:PRINT:PRINT:PRINT"LOADING"
1205 INPUT"PREPARE DISK<<HIT RETURN>>";Q
1207 DIR:PRINT"P="P
1210 INPUT"TO RETURN TO MENU TYPE<<M>>";Q$:IFQ$="M"THEN70
1215 CLS:PRINT:PRINT:PRINT"L-O-A-D-I-N-G"
1220 OPEN"^D.3-324",0:GOSUB1230:FORI=CTOD
1225 IN#"^D.3-324",P$(I):NEXT:CLOSE"^D.3-324":GOTO70
1230 INPUT"FROM/TO";C,D:RETURN
1250 PRINT"DELETE FILE ";F$;" Y/N":INPUTK$:IFK$="Y"THEN1265
1260 GOTO70
1265 INPUT"ARE YOU SURE ??? Y/N.";L$:IFL$="Y"THEN1280ELSE70
1270 GOTO70
1280 ERA"^D.3-324":GOTO70

```

### SOME CONSTANTS ETC. USED

GOTO70 IS RETURN TO MENU  
 -P- IS TOP OF FILE.--I=1TOP  
 P\$(I) IS THE INPUT OF TEXT  
 FILENAME WILL BE A MARKER FOLLOWED BY 7 CHARS.  
 I HAVE USED-^D.3-324.  
 ^=MARKER.D IS FILE TYPE.-.3 IS NUMBER  
 324 IS NUMBER OF ENTRIES.EQUAL TO -P-.  
 LINE 1116 WILL BE DIFFERENT FOR EACH DATAFILE  
 TO FIND WHERE IT STARTS AND FINISHES  
 USE THIS PROGRAM-----  
 5 FOR A=-32765TO-22500  
 10 IF PEEK(A)=94 AND PEEK(A-1)=34THEN20  
 15 NEXT  
 20 PRINTA;PEEK(A);PEEK(A-1):END  
 IF IT STOPS AT -22500 THEN USE -22500TO-10000  
 THE ABOVE ROUTINE USES 1300 SO ADD THAT TO THE START  
 ALLOWING AN OVERLAP AT BOTH ENDS  
 CHANGE A PROGRAM NAME AND LIST TO SEE THAT  
 ALL HAVE BEEN CHANGED.ADJUST ACCORDINGLY

What is the best thing to take into the desert?  
 A thirst-aid kit.



VZ

# VZ ROM PRINTER ROUTINES

## BY LARRY TAYLOR

This is an assembly language printout of a section of the VZ ROM (Read Only Memory), which handles output to the printer. Each time a character is LPRINTed, it is sent via this routine.

The comments alongside should help to explain what each section does. The driver routine at 058D HEX first checks to see if the value is one that can be printed. If it is, a jump is made to 3AB6 HEX, where a second check is made to see if it is an inverse or a graphics character. If it is neither, the character will be printed, otherwise a jump is made to 3ADB HEX. At this point the value is tested to see if it is a graphics block. If it is not, an inverse character will be printed, otherwise a final jump is made to 2C73 HEX where the appropriate graphics character is printed.

### PRINTER DRIVER

VZ-200 Z-80 DISASSEMBLER V 1.0

```
058D:79 LD A,C
058E:B7 OR A
058F:2833 JR 2,33 (05C4)
0591:FE0B CP OB
0593:280A JR 2,0A (059F)
0595:FE0C CP OC
0597:2014 JR NZ,14 (05AD)
0599:AF XOR A
059A:DD8603 OR (1X+03)
059D:280E JR 2,0E (05AD)
059F:DD7E03 LD A,(1X+03)
05A2:DD9604 SUB (1X+04)
05A3:47 LD B,A
05A6:CDE23A CALL 3AE2
05A9:10FB DJNZ FB (05A6)
05AB:1812 JR 12 (05BF)
05AD:CDB63A CALL 3AB6
05B0:79 LD A,C
05B1:FE0D CP OD
05B3:CO RET NZ
05B4:DD3404 INC (1X+04)
05B7:DD7E04 LD A,(1X+04)
05BA:DDBE03 CP (1X+03)
05BD:79 LD A,C
05BE:CO RET NZ
05BF:DD360400 LD (1X+04),00
05C3:C9 RET

05C4:DB00 IN A,(00)
05C6:E601 AND 01
05C8:C9 RET
```

D O N E

INSTRUCTIONS:  
BYTES:

30  
60

VZ-200 Z-80 DISASSEMBLER V 1.0

```
3AB6:B7 OR A
3AB7:FAFD83A JP M,3ADB
3ABA:FS PUSH AF
3ABB:CDE83A CALL 3AEB
3ABE:D2C43A JP NC,3AC4
3AC1:F1 POP AF
3AC2:37 SCF
3AC3:C9 RET

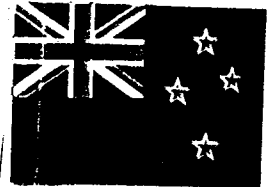
3AC4:DB00 IN A,(00)
3AC6:CB47 BIT 0,A
3ACB:20F1 JR NZ,F1 (3ABB)
3ACA:F1 POP AF
3ACB:D30E OUT (OE),A
3ACD:D30D OUT (OD),A
3ACF:FE0D CP OD
3AD1:37 SCF
3AD2:3F CCF
3AD3:CO RET
3AD4:3E0A LD A,0A (3ABA)
3AD6:1BE2 JR E2
3AD8:CB77 BIT 6,A
3ADA:CA732C JP 2,2C73
3ADD:E63F AND 3F
3ADF:C35639 JP 3956
3AE2:3E0D LD A,0D
3AE4:CDBA3A CALL 3ABA
3AE7:C9 RET

3AEB:B7 OR A
3AE9:FAFD6B LD A,(68FD)
3AEC:CB57 BIT 2,A
3AEE:CO RET NZ
3AEF:3ADF6B LD A,(68DF)
3AF2:37 SCF
3AF3:CB57 BIT 2,A
3AF6:3F RET Z
3AF7:C9 RET
```

D O N E

INSTRUCTIONS:  
BYTES:

37  
66



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JOHN D'ALTON FEB 1987.

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## PRINTS GRAPHICS CHARACTERS 3

VZ-200 Z-80 DISASSEMBLER V 1.0

```

2C73: C5      PUSH BC
2C74: 47      LD B,A
2C75: 3E08      LD A,08
2C77: CDBA3A    CALL 3ABA
2C7A: 78      LD A,B
2C7B: E60F      AND OF
2C7D: E5      PUSH HL
2C7E: CB27      SLA A
2C80: 4F      LD C,A
2C81: AF      XOR A
2C82: 47      LD B,A
2C83: 21AF02    LD HL,02AF
2C86: 09      ADD HL,BC
2C87: 7E      LD A,(HL)
2C88: 47      LD B,A
2C89: 23      INC HL
2C8A: 7E      LD A,(HL)
2C8B: 4F      LD C,A
2C8C: 78      LD A,B
2C8D: CDBA3A    CALL 3ABA
2C90: CDBA3A    CALL 3ABA
2C93: CDBA3A    CALL 3ABA
2C96: 79      LD A,C
2C97: CDBA3A    CALL 3ABA
2C9A: CDBA3A    CALL 3ABA
2C9D: CDBA3A    CALL 3ABA
2CA0: E1      POP HL
2CA1: C1      POP BC
2CA2: 3E0F      LD A,OF
2CA4: CDBA3A    CALL 3ABA
2CA7: C9      RET

```

? SAVE BC  
 ? SAVE CHARACTER TO BE PRINTED  
 ?? PUT PRINTER INTO  
 ?? GRAPHICS MODE  
 x RELOAD CHAR VALUE  
 ?? REDUCE VALUE TO RANGE 0-15  
 ? SAVE HL  
 ? MULTIPLY VALUE BY 2 TO GIVE OFFSET  
 ? LOAD VALUE INTO C  
 ? ZERO A REGISTER  
 ? LOAD VALUE INTO B  
 1?? LOAD START ADDRESS GRAPHIC CHAR TABLE  
 ? ADD OFFSET TO LOCATE CHAR DATA  
 ~ LOAD DATA INTO A REGISTER  
 ? TRANSFER TO B  
 # ADVANCE TO NEXT BYTE  
 ~ LOAD DATA INTO A  
 ? TRANSFER TO C  
 x LOAD FIRST BYTE BACK INTO A  
 ?? PRINT IT  
 ?? THREE  
 ?? TIMES  
 y LOAD SECOND BYTE BACK INTO A  
 ?? PRINT IT  
 ?? THREE  
 ?? TIMES  
 ? RESTORE HL  
 ? RESTORE BC  
 ?? RETURN PRINTER  
 ?? TO TEXT MODE  
 ? RETURN TO CALLER

D O N E

 INSTRUCTIONS: 31  
 BYTES: 53

## HELP.

Mr. Peter Schaper, P.O. Box 608, REDCLIFFE, QLD. 4020, has a Brother HP 600 Word proc unit connected via the DSE. RS232 interface to a VZ300. It works in a fashion. Can someone help him.

Mr. V Patel of P.O. Box 239, MATAMATA NEW ZEALAND is looking for a PASCAL Interpreter/Compiler. Can anyone help?

Mr. Stan Hodgson of 81 Haunted Hills Road, NEWBOURGH VIC 3825, phone (05)127 3751 or (05)1273 751 requires any information on a Super EN-P1090 printer.

What happens if pigs fly?

Bacon goes up.

## PRINTS INVERSE CHARACTERS 4

VZ-200 Z-80 DISASSEMBLER V 1.0

```

3956: F5      PUSH AF
3957: C5      PUSH BC
3958: D5      PUSH DE
3959: E5      PUSH HL
395A: 6F      LD L,A
395B: 2600      LD H,00
395D: 3E08      LD A,08
395F: CDBA3A    CALL 3ABA
3962: 0604      LD B,04
3964: E5      PUSH HL
3965: D1      POP DE
3966: B7      OR A
3967: ED5A      ADC HL,DE
3969: 10FC      DJNZ FC
3968: E5      PUSH HL
396C: C1      POP BC
396D: 21943B    LD HL,3B94
3970: 09      ADD HL,BC
3971: 3EFF      LD A,FF
3973: CDBA3A    CALL 3ABA
3976: 0605      LD B,05
3978: 7E      LD A,(HL)
3979: 23      INC HL
397A: CDBA3A    CALL 3ABA
397D: 10F9      DJNZ F9
397F: 3EFF      LD A,FF
3981: CDBA3A    CALL 3ABA
3984: 3E0F      LD A,OF
3986: CDBA3A    CALL 3ABA
3989: E1      POP HL
398A: D1      POP DE
398B: C1      POP BC
398C: F1      POP AF
398D: C9      RET

```

? SAVE  
 ? ALL  
 ? THE  
 ? REGISTERS  
 0 LOAD VALUE 0-63 INTO L  
 ?? ZERO H REGISTER  
 ?? PUT PRINTER INTO  
 ?? GRAPHICS MODE  
 ?? TRANSFER HL VALUE  
 ? INTO DE  
 ? RESET CARRY FLAG  
 ?? ADD 4 TIMES THE VALUE OF HL  
 ?? TO HL TO CALCULATE OFFSET  
 ? TRANSFER OFFSET VALUE  
 ? FROM HL TO BC  
 1? LOAD START ADDRESS INVERSE CHAR TABLE  
 ? ADD OFFSET TO LOCATE CHAR DATA  
 ?? PRINT A  
 ?? FIVE VALUES TO BE PRINTED  
 ? LOAD VALUE FROM TABLE  
 ? MOVE TO NEXT VALUE IN TABLE  
 ? PRINT IT  
 ?? REPEAT UNTIL ALL 5 ARE PRINTED  
 ?? PRINT A  
 ?? VERTICAL LINE  
 ?? PUT PRINTER BACK  
 ?? IN TEXT MODE  
 ? RESTORE  
 ? ALL  
 ? THE  
 ? REGISTERS  
 ? RETURN TO CALLER

D O N E

 INSTRUCTIONS: 34  
 BYTES: 56

## \*\* OTHER CLUBS \*\*

VZ-Down Under, Mr. George Seegie, C/O Unit 3/90 Grey St., St. KILDA VIC 3182, Australia.

They print a newsletter.

VZ USER, Mr. Mark Harwood, P.O. Box 154, DURAL NSW 2158, Australia.  
They charge a yearly subscription and print a monthly newsletter.

AD LIB Vee Zed MICRO CLUB, Mr. Gordon Brownell, 13 Brooks St., BIGGENDEN, QLD 4621, Australia.  
A newsletter and other information is printed.



## \*\*\* SOFTWARE FOR SALE FROM VSOFTWAREZ \*\*\*

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FEBRUARY 1987.

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All prices are correct at time of printing, but may change without notice. All articles available while stocks last. All prices in A\$.

All tape software includes postage up to four tapes.

When ordering software, always state := which computer VZ200 or VZ300, if you have an expansion RAM unit, and if you have a disc drive system connected or denote as below.

VZ1 = unexpanded VZ200. VZ2 = unexpanded VZ300.  
VZ3 = expanded VZ200. VZ4 = expanded VZ300

IE. TB15 = Tape only unit of B15. DB5 = Disc only unit of B5.

T/DE4 = Tape or Disc unit of E4. The price stated is for a Tape unit. If a Disc unit is required, add \$5.00. to the Tape price. The price of a Disc unit is as stated.

We now accept BANKCARD and VISACARD, as well as bank, building society, credit union, private cheques, or Aust Post money orders.

Make cheques payable to J.D'ALTON or VSOFTWAREZ.

## \*\*\* NEW SOFTWARE. \*\*\*

T/DU49 VZ-EPSON P/PATCH. \$ 15.00. VZ1-VZ4.

Larry Taylor's new M/L unit. It allows Epson or Epson compatible printers to LPRINT or LLIST all of the VZ's inverse and graphic characters. These same characters can also be dumped to the printer from the LO-RES screen in the COPY mode. In MODE(1), use of the COPY command will also dump the HI-RES screen to the printer.

COPY,n, allows a range of 4 to 8 to be selected to allow for varying line feeds for different printers. The utility adjusts for any size VZ memory. It also prints the Extended Basic commands that are used if a programme is written using the Extended Basic utility. Very handy! It can even be used with the Extended Basic utility loaded. A second command, LTAB(n), allows a left margin from 0 to 15 to be selected. This is for <LLISTing> a BASIC programme.

DU22 Disk Copy. \$ 10.00. VZ1-VZ4.

Another M/L utility which is similar to D/COPY with the added facility of VERIFY. This is done as it runs and shows the sector numbers.

D/T644 MONOPOLY V2.00 \$17.00. VZ3.

This new version from Scott LeBrun replaces his two other units, D/T63 and D/T639. You have the option to play the VZ and/or up to eight players.

D/T645 MONOPOLY V2.0 \$19.50. VZ4.

This new version from Scott LeBrun replaces his two other units, D/T63 and D/T639. This is identical to D/T644 except that it includes a high resolution display of the Monopoly board. You have the option to play the VZ and/or up to eight players.

Scott will replace Tape versions of T63 and T639 with T/644 for people who have purchased those, but please include money for postage.

Mr.S Le Brun, 5 Cameron Court, WANTIRNA. VIC. 3152.

D/T650.ESCAPE RIVER. \$15.00. VZ3-VZ4.

A game by Larry Taylor for two to six players. Players must work together to build a raft before a big flood arrives. The top four text lines are in Low Res. while the rest of the VDU. is in High Res. depicting the river, trees, people and so on.

D/TU2	EDITOR/ASSEMBLER	\$ 20.00.	VZ3-VZ4.
D/TB1	CASH BOOK LEDGER	\$ 20.00.	VZ3-VZ4.
TU4	COLOUR GRAPHICS	\$ 10.00.	VZ3-VZ4.
D/TE1	KEYBOARD	\$ 8.00.	VZ1-VZ4.
D/TE2	WORDMATCHING	Deleted.	
D/TE3	MEATPIES	\$ 10.00.	VZ3-VZ4.
D/TU3	UTILITYS	\$ 15.00.	VZ2-VZ4.
TU5	WEAVING DRAFTS	\$ 10.00.	VZ1-VZ4.
D/TE4	MATHS COUNTDOWN	\$ 10.00.	VZ3-VZ4.
D/TE5	COORDINATES	\$ 10.00.	VZ2-VZ4.
D/TE6	TOWER of HANDI	\$ 8.00.	VZ1-VZ4.
D/TE7	MICROSCOPE	\$ 8.00.	VZ3-VZ4.
D/TE8	BLOCK PUZZLER	\$ 10.00.	VZ1-VZ4.
TE20	PLUS and MINUS	\$ 10.00.	VZ1-VZ4.
TE24	MATHS	\$ 15.00.	VZ3-VZ4.
TE25	QUEENSLAND	\$ 10.00.	VZ1-VZ4.
TE27	EUROPEAN CAPITALS	\$ 10.00.	VZ1-VZ4.
TE30	CAMPING	\$ 10.00.	VZ1-VZ4.
D/T62	MANSION and NOVA	Deleted.	
D/T63	VZ MONOPOLY.	Deleted.	
TU12	SEARCHTAPE	Deleted.	
D/T613	SCOTLAND YARD	\$ 12.50.	VZ3-VZ4.
DB4	LE'VZ D'BASE	\$ 98.00.	VZ3-VZ4.
TB15	DATABASE-VZ	\$ 25.00.	VZ3-VZ4.
T635	HAUNTED MANSION	\$ 12.50.	VZ3-VZ4.
TU6	VZ EXTENDED BASIC	\$ 20.00.	VZ1-VZ4.
TU7	PROTECT	Deleted.	
TU8	EMERGE/DELETE/REN	\$ 12.50.	VZ3-VZ4.
TU9	MONITOR DEBUGGER	\$ 25.00.	VZ1-VZ4.
This new version finds VZ memory size itself.			
TU10	EXTENDED BASIC	\$ 12.50.	VZ3-VZ4.
TU11	ARRAY/RESTORE	\$ 14.95.	VZ3-VZ4.
You must have TU10 to use TU11.			
D/TU12	FILESEARCH	Deleted.	
DE1-8	EDUDISK	\$ 50.00.	VZ3-VZ4.
T/DE9	MEATPIES V2.	\$ 15.00.	VZ3-VZ4.
TU18	LOAD XX80 FILES.	\$ 20.00.	VZ1-VZ4.
This new version finds VZ memory size itself.			
T/D636	BLACKJACK.	\$ 20.00.	VZ3-VZ4.
T/D637	POKER MACHINE.	\$ 20.00.	VZ3-VZ4.
T/D638	WORDSQUARES.	\$ 10.00.	VZ2-VZ4.
T/D639	COMPUTER MONOPOLY.	Deleted.	
T/D640	TRIVIAL CULT.	\$ 15.00.	VZ2-VZ4.
T/D641	SCOTLAND YARD 2.	\$ 15.00.	VZ3-VZ4.
DB5	LE'VZSTATEMENT.	\$185.00.	VZ4.
DB16	CHEQUE LEDGER D.	\$ 60.00.	VZ3-VZ4.
D/TU19	COPY/PROTECT.	\$ 30.00.	VZ1-VZ4.
DU20	DISC GUARD.	\$ 60.00.	VZ1-VZ4.
T/DU21	VZ-EPSON PRINT/P.	Deleted.	
DU22	DISK COPY.	\$ 10.00.	VZ1-VZ4.
D/TU48	FILESEARCH.	\$ 10.00.	VZ1-VZ4.

D/T644	MONOPOLY.	\$ 17.00.	VZ3-VZ4.
D/T645	MONOPOLY.	\$ 19.50.	VZ4.
D/T650	ESCAPE RIVER.	\$ 15.00.	VZ3-VZ4.
D/ U46	QUICKWRITE.	\$ 40.00.	VZ3-VZ4.
DU47	DISKOPS1.	\$ 10.00.	VZ3-VZ4.
DU48	DISKOPS2.	\$ 10.00.	VZ4.
D/T642	AIRTRAFFIC CONTROLLER.	\$20.00.	VZ3-
D/T643	LEARJET.	\$ 20.00.	VZ3-VZ4.
DU49	VZ-EPSON PRINT/PATCH.	\$ 15.00.	VZ1-VZ4.

# // / EXTENDED BASIC

## JOHN D'ALTON.

### EXTENDED BASIC PROGRAMMING.

#### VARPTR.

This time I will discuss VARPTR (VARiable PoiNter) use. As I stated before, I do not give a full description of EXTENDED BASIC commands, only enough to whet your appetite and seek a good BASIC programming book. The easiest way to implement EXT. BASIC commands is to borrow or purchase one of our units.

The VAR of VARPTR can be a numeric or a string variable. I will only refer to a string variable here.

You may wish to change a string variable in the line in a programme from "SYDNEY" to "ALBURY". VARPTR find the address of the first character, which is "S" in "SYDNEY". The new word with it's first character being "A" is POKEd into that address.

The address is actually stored in a location called an INDEX. The index location varies according to the size of the programme.

This is a RUN of it.

```
100 REM VARPTR DEMO 1
110 A$="SYDNEY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
300 END
```

READY  
RUN  
INDEX TO A\$ IS AT 31603  
A\$ IS LOCATED AT 31493  
COPY

So that you can see how both the address of "S" and the index address has changed by plus one, I have added a full stop after "1" on line 100.

```
100 REM VARPTR DEMO 1.
110 A$="SYDNEY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
300 END
```

READY  
RUN  
INDEX TO A\$ IS AT 31604  
A\$ IS LOCATED AT 31494  
COPY

Now we can POKE new characters in to make A\$ a new word. The ASCII values are READ from the DATA on line 280.

```
100 REM VARPTR DEMO 1.
110 A$="ALBURY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
200 FORI=LTO L+5
210 PRINTA$(I)
220 READN:POKEI,N
230 NEXTI:PRINTA$:PRINT
280 DATA65,76,66,85,82,89
300 END
```

READY  
RUN  
INDEX TO A\$ IS AT 31673  
A\$ IS LOCATED AT 31494  
SYDNEY  
AYDNEY  
ALDNEY  
ALBNEY  
ALBUEY  
ALBURY  
COPY

#### D/TG42 AIR TRAFFIC CONTROLLER. \$20.00. VZ3-VZ4.

This game was previously sold by DSE. A very good Low Res. game which allows you to control the arrival and departure of various types of aircraft at a busy airport. Complete with instruction manual.

#### D/TG43. LEARJET. \$20.00. VZ3-VZ4.

Another game previously sold by DSE. It is a more complicated Low Res. game whereby you pilot a Learjet around Australia. Also complete with instruction manual.

#### DB46. QUICKWRITE. \$40.00. VZ3-VZ4.

This M/L unit is a WORDPROCESSOR for disc use only, as the data is <SAVED> automatically to disc after a number of lines have been typed. Back-up to tape is catered for. Many of the usual options are allowed. Paste, Cut, Find & Replace, Copy, Insert etc. Also various printer controls are selectable. An instruction manual is included.

#### DISKOPS1. \$10.00. VZ3.

This utility allows M/L programmers using the DSE. Editor Assembler, to save and load their source code to and from disc. Tape must still be used to save object code.

#### DU48. DISFOPS2. \$10.00. VZ4.

This is the same as DU47, but as these two units are NOT re-locatable, you must specify which you require, DU47 or DU48.

#### \*\*\*\* S O F T W A R E \*\*\*\*

The liftout VZ Computer Software Catalogue has been compiled to provide assistance to all Users in finding a commercially available program to suit their requirements. Details of any programs not listed here can be sent to the address shown on the list so updates can be affected. Over the years some of these programs have now been taken off the market and it would be a pity to see them disappear completely. So I suggest a central Library should be set up and with the assistance of Writers this could be built up so all future Users can receive the benefit. This is similar to what is available to other Brand Computer Users. Due to Copyright controls current programs could not be handled but Writers from the past who still hold copies of programs can still receive some benefit for their work as nominal charges for Tapes, Disks, Postage and recording could be made. Due to lack of satisfactory SERVICE given to their Clients by some Distributors I, Along with a number of others have experienced, Any form of improvement in obtaining goods can only be for the better. Another problem has been the quality of reproduction of recordings. As some programs I bought took a lot of Jussling with different recorders before I could load them error free. We have a low cost but reliable Computer in our hands, so let's all get behind it with our support in both software and hardware.

*John Dalton*



# LE'VZ FORMATS.

To help me time-wise to make LE'VZ a better magazine, and yourself to get the most out of it, please read this page.

ALL PRICES are in Australian Dollars.

CURRENT ISSUE price is A\$2.00 which includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than one copy at one time, extra money must be sent to cover postage.

LE'VZ IS (C) COPYRIGHT.

NEW MEMBERS must start by sending \$4.00 as I do not charge a yearly subscription. This makes it worth while entering your name, address and other data into our D'BASE. You then receive the current issue if it is in a certain time period between the main send LE'VZ runs. If that is close to the next issue, you will receive that and not the "old" current issue. New Members can send more than \$4.00, as long as it is in multiples of \$2.00.

Present DOPs have their \$ credit printed at the top of their name and address label if sent in the main run. If your credit is less than \$2.00., then a little reminder slip is included with the LE'VZ sent, stating that this is your last issue. Some folk have various money amounts left over from other software or hardware purchases put into their LE'VZ credit, and so odd \$ amounts do occur.

BACK ISSUES are from #8 to the current issue. The price is \$3.00 each. This includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than two copies at one time, extra money must be sent to cover postage.

We usually have most Back Issues in stock. We send what we have and back order the others for you if required. If they are not sent within a couple of months, or with the next Current issue, please remind us.

GENERAL LIST refers to DOPs who want their name, address and data made available to other DOPs when asked for. You may like to contact DOPs in your state, or DOPs with VZ200s. Not all DOPs want their name and information made public, so if that applies to you, you must answer N (no). IF YOU DO NOT WANT YOUR INFO MADE PUBLIC, ANSWER N (no) ON THE DATA SHEET. IF YOU DO NOT ANSWER Y (yes) OR N (no) THEN YOU WILL AUTOMATICALLY BE PUT ON THE GENERAL LIST.

Remember, you may receive letters from DOPs months after you may have sold your VZ.

ANY COMMUNICATION to me that requires a written reply must be accompanied by a Self Addressed Stamped Envelope. Do not expect an immediate reply, as I may need to contact others to formulate an answer.

Always state your record number. That could be between A02 and A98, B01 and B98 or C01 and C45. I have about 240 financial and unfinancial folk to keep track of. From LE'VZ #15, your record number and \$ credit are printed at the top of your name and address label.

DO NOT TELEPHONE ME ON SUNDAY!!!

CIRCUIT, ROM and PROGRAMME LISTING PRINTOUTS can be sent to you at 20C per A4 page plus postage. Do not ask for the complete VZ ROM listing as it is very long and is about 15CM in thickness.

LETTERS TO THE EDITOR are welcome either as general comments, complaints or asking for help. As with contributors, please ensure that your typewriter or printer prints clear and DARK. In the new 35 character normal size print, IE. 90MM line length, right justified or wragged. If you have to write by hand, use a RED pen and write in the format just mentioned.

ADVERTISING is a free service to DOPs who are financial, using the above 35 character format. About 100 words or less.

CONTRIBUTIONS are very welcome. Please write your letter on a separate piece of paper to your contribution, which allows separate filing of material. You can send in programme listings in M/L or BASIC. Hardware modification or equipment drawings. Hints and any useful information. As above, use the new 35 character format except if it is a large circuit, drawing or photo. If it is a full page contribution reduce by photo copying so that there is a 20MM margin all the way around.

In fact I would like to receive more hardware contributions. Also photos of your equipment would interest others. There is a little problem here though as different photo copiers reproduce certain colours differently. We can but try.

BASIC PROGRAMME LISTINGS need special requirements.

Refer to #14 pages 2 and 3. This was sent by Scott Le Brun on paper as printed on his 6P100. I then reduced it so that two pages could be printed on one page. His printer ribbon was a little light. Now refer to pages 4 and 5. Marco Ostini sent this on tape. I printed it in reduced mode while <LISTING> it. It is a slightly bigger print than Scott's and clearer. Also I ran the programme so it should be "bug" free, certainly no typing errors.

TAPE/DISC CONTRIBUTIONS are therefore the best way to send in this regard. Send in a padded post bag, and we will return it to you as soon as possible. We will pay the return postage. In this way the programme can be later issued as a PUBLIC DOMAIN programme. You must let me know if you will allow this to happen.

VPROGRAMMEZ-VHINTZ-VHARDWAREZ book. People have suggested that I print a second book. Please let me have permission in WRITING if you would like any of your contributions included in it.

Finally, I do not promise to print any or all contributions, this is at my discretion.

LE'VZ is printed every two to three months.

### MINI EXPO REPORT.

This time I chose the Milton Primary School as the venue. It is about 1KM. from here. The day was the 13th. of December 1986. I set up the furniture the day before, which was school "break up day". I arrived at about 7.30 AM. on the Saturday morning. I thank Mr. Phil Maude, Mr. Larry Taylor, Mr. Bob Kitch, and Mr. Eddie Tones who with myself set up five main VZ systems, (yes five).

Additional equipment was supplied by Mr. Bob Jones, Mr. Peter Glanville and others.

I gave my opening talk commencing at 10.00 AM. Then I demonstrated various software, including our VSOFTWAREZ LE'VZ D'BASE. This was to give a brief showing of what happens when I send LE'VZ, printing the ODP name and address labels who have credit. Larry Taylor then gave a short talk/demo of his Printer Patch. From then on there were various talks and demonstrations in both rooms simultaneously.

Bob Kitch demonstrated a Kodak 240V/battery ink jet printer, talked about his VERBATUM book of information, machine/assembly language programming and his new hardware. Bob's son Bruce, talked about programming with the DSE. Sprite Generator. Eddie Tones showed Bob Jones's big 98 LB. 132 character column printer in operation and his own much modified VZ. He showed his printer/plotter, a Tandy CBP-115 in operation. He also spoke about his software list which is mentioned on page 8.

Larry Taylor's Speech Synthesiser was running much of the day, as was our Demonstration-Advertisement-Disc and Jamie Perry's (DSE.) demo Disc.

The Light Pen system was given a showing also. I was not able to hear all talks and demos as I was selling our software, LE'VZs and generally talking to folk. There were plenty of information sheets available free of charge. Last but not least, I supplied tea and biscuits for whoever required it, and a lucky door prize.

Although about 40 folk passed through the door, only 14 wrote their name on the list at the entrance door. The prize which was a copy of the book, Learning TRS-80 Basic for Models I, II/16 and III was drawn out by Bruce Kitch. Believe it or not he drew his father's number. Mr. Bob Kitch #10 was the winner. I am sure Bob enjoyed his extra Christmas present.

The top photo shows Eddie Tones talking about his software list. On his right is Bob Kitch "holding his heart". The bottom photo is of Larry Taylor giving his printer talk. On his left is our VZ setup.

Again I thank all who helped make it a wonderful day.

### READER REQUEST.

Mr. James Crichton, of 34 Murringo St., YOUNG. NSW. 2594, would like to know who wrote the DSE. CHESS programme for the VZ. He would like access to the M/L source code with a view to implementing it on the SEGA computer which has excellent graphics capability.

ED.



### DICK SMITH TAPES.

We have quite a few used programme tapes for sale at \$6.00 each. Postage NOT included.

```
100 REM TO PLACE AN X ANYWHERE ON THE LOW RES SCREEN
101 REM BY GUY THOMASON
102 REM VP=VERTICAL POSITION. HP=HORIZONTAL POSITION
104 CLS
105 INPUT VP: INPUT HP
110 PRINT@32*VP+HP, "X"
200 END
```



## \* \* NEW LE'VZ FORMATS. \* \*

So that more information can be printed in LE'VZ, and to assist me, on page 9 is set out the new format rules and guidelines. I have been spending a fair amount of time copying material to darken a printed (LISTing), or reducing it to fit the page. Even so there have been a few parts of these that are not very clear. To the beginner programme typist, this can be very frustrating. Of course on the other hand it is in itself a teaching tool. Never-the-less I would like the (LISTings) to be easy to read. I don't want them as small as the sub-miniature Australian Personal Computer (LISTings) either. Also, not every one possesses a magnifying glass. On the other hand it is a waste of paper to print them in normal size.

PLEASE help me!!!

## \* \* COVER COMPETITION. \* \*

I am holding a competition that all OOPs can enter. The prize is \$10.00.

I need a new front/cover page for LE'VZ for #16 onwards. It is for the same A4 size of paper that I currently use. Entries to be on white paper. The front page is usually coloured. In the past yellow, pink, blue, green and buff.

The name, LE'VZ 200/300 OOPs must be prominent on the top half of the page. You can use graphics, Letraset, printer etc. A light background of programme (LISTings), drawings or original photos of VZ equipment, (NOT DSE. photos) is acceptable.

Use your imagination.

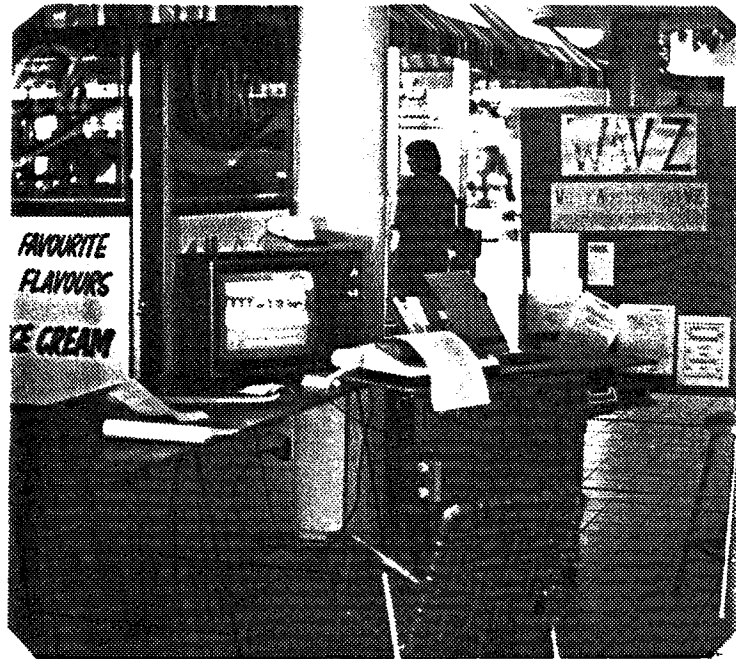
I may not use any entry, so there would be no payout. I may use two separate entries combined, so there would be \$5.00. paid to each entrant.

Remember, I hope to use the new cover on #16 issue around June.

THE COMPETITION CLOSSES ON APRIL THE 24th. 1987, RECEIVED BY US.

## COMING SOON .. SOON .. SOON.

- Disc utility to read any track.
- EPROM exchange for the DSE. RS232 Terminal which allows a printer to operate, plus extra key operations.
- More EXTENDED BASIC programming.
- More short BASIC programmes.
- Tape units of the Public Domain Disc units, DPD1 and DPD2.
- A software utility to save source code of the DSE. Editor Assembler to Disc.
- A software utility to save text data of the DSE. tape Word Processor to Disc.
- A competition.
- A Compiler in BASIC.
- Bob Kitch's video article.
- Etc etc etc....



This photo was sent by Graeme Bywater of the WAVZ club in Perth. It was taken during their display in the Morley Mall.

## HARDWARE AND FIRMWARE FOR SALE.

VSOFTWAREZ, 39 Agnes St., TOONONG. QLD. 4066.  
AUSTRALIA. 'phone (07) 371 3707.

Unlike our software prices, these prices do NOT include postage. Always include extra money and we will send you back any surplus money in the parcel or credit it for future LE'VZs, if you are an OOP. Prices in Australian dollars at 1st. of Feb. 1987. Items available while stocks last. NO warranty on USED items.

VZ data recorder	used	\$ 45.00.
GP100 printer ribbons	new	\$ 22.00 for two.
These are not the exact type, but a few minutes fiddle.		
VZ200 rubber membrane keys	new	\$ 18.00 each.
VZ300 rubber membrane keys	new	\$ 18.00 each.
C10 blank tapes	new	\$ 6.50 for five.
C20 blank tapes	new	\$ 7.00 for five.
Floppy discs DDSS	new	\$ 22.00 per pack of ten.
VZ300 & p/pack & manual	used	\$ 65.00.

## BOOKS.

VprogrammeZ-VZ-VZ	new	\$ 18.50 each (postage included)
Learning TRS-80 BASIC-I,II/16	new	\$ 10.00 each.
BASIC Easier and Faster TRS80	new	\$ 10.00 each.

PUBLIC DOMAIN SOFTWARE.

In the previous LE'VZ I released two Discs at \$15.00 each. The DIRectory printout of DPD1 should not have included the last six programmes on it. Both DIRectories are printed here.

Our Demonstration-Advertisement-Disc is also for sale at \$10.00, or ask nicely at most DSE. stores for them to make a free copy for you. I suggest you supply a blank disc.

Can you spell "Blind Pig"?  
Sure- B L I N D P I G

No it's B L N D P G If it had two eyes it wouldn't be blind!

PUBLIC D DPD1.

T:MENU 01 00 7AE9 7DF2 0309  
T:BARGRAPH 01 07 7AE9 7C9B 01B2  
B:PO 01 0B 7000 7801 0801  
T:MINE 02 0C 7AE9 91A4 16BB  
T:NAME 05 0B 7AE9 7DBF 02D6  
T:GO 06 01 7AE9 8D49 1260  
T:OTHELLO 08 07 7AE9 7B0E 0075  
T:WORDS 08 08 7AE9 8943 0E5A  
T:GRAPH 0A 06 7AE9 8BBA 10A1  
T:SKETCH 0C 08 7AE9 80B2 05C9  
T:METEOR 0D 04 7AE9 7FC0 04D7  
T:ANIMAL 0D 0E 7AE9 8278 078F  
T:PENCIL 0E 0E 7AE9 8CC0 11D7  
T:INVENTORY 11 03 7AE9 891B 0E32

336 RECORDS 42.0K BYTES FREE

PUBLIC D DPD2.

T:CIRCLE 01 00 7AE9 7B4F 0066  
T:TRIANGLE 01 01 7AE9 7B63 007A  
T:SPIRAL 01 02 7AE9 7B4E 0065  
T:LOOPS 01 04 7AE9 7B49 0060  
T:STAR 01 05 7AE9 7B4F 006A  
T:KNOTS 01 06 7AE9 7B59 0070  
T:FLOWER 01 07 7AE9 7B49 0060  
T:GUILLOTIN 01 03 7AE9 7DFB 0312  
T:RACES 01 0D 7AE9 80F6 060D  
T:ROADER 02 0A 7AE9 8079 0590  
T:U.F.O. 03 06 7AE9 7E80 0397  
T:LANDER 05 0D 7AE9 83F5 0888  
T:HELICPTR 03 0D 7AE9 83B2 08C9  
T:SYMMETRY 04 0F 7AE9 7C11 0128  
T:BOUNCE 07 02 7AE9 7CAD 01C4  
T:PIZZA 07 05 7AE9 83EE 0905  
T:SUBMRINE 08 08 7AE9 86B6 0BCD  
T:MORSE 1 09 0D 7AE9 83F0 0907  
T:CALENDAR 08 05 7AE9 8466 097D  
T:BIRTHDAY 0C 09 7AE9 82E9 0800

422 RECORDS 52.750K BYTES FREE

INFORMATION CONTACTS.

Here are three other folk who you can contact. Always include a SASE, if you require a written reply. Please use good judgement if you telephone, perhaps not on Sundays. Check with the person concerned.

Graphics, M/L, printer info, educational.  
Mr.Larry Taylor, 4 Columbia Court, SPRINGWOOD. QLD. 4127. 'phone (07)208 1258.

M/L, hardware, BASIC programming and his special list of all types of info.  
Mr.Bob Kitch, 7 Eureka St., KENMORE. QLD. 4069. 'phone (07)378 3745.

Software list.  
Mr.Eddie Jones, 3 Kilkenny St., CAPALABA. QLD. 4157. 'phone (07)390 2797.

PLEASE REMEMBER.

In any communication with us, please indicate YOUR OOPs RECORD NUMBER, if you know it. As mentioned on page 9, it should be printed on the top of your name and address label of the LE'VZ sent. It assists me greatly to have this number. Many thanks. J.D.

//// NEW BRISBANE CLUB. ///

Mr.Bob Jones has arranged the first meeting to form a group. The meeting or workshop will be held at 1.00 PM. Saturday the 7th. of March 1987 at the Capalaba State High School, School Rd., off Mt. Cotton Rd. Queensland.

**CUT**

\*\*\*\*\* DATA SHEET \*\*\*\*\*

Surname..... Mr, Mrs, Miss and Christian name.....  
Address.....Post Code .....  
Telephone number. ( )..... Onto General List Yes/No.....  
Computer. VZ200 and/or VZ300.....Any other computer.....  
Printer and/or plotter.....Disc system Yes/No.....  
RAM Expansion.....K. Tape recorder. VZ DTR or other.....  
RS232 terminal..... Yes/No.....Modem Yes/No..... Brand.....  
Interest. Business, games, M/L, BASIC, hardware, etc.....

I request all OOPs (Oners-Operators-Programmers) to complete, cut out and send back to me. As mentioned elsewhere in this LE'VZ, this is useful for OOPs who may like to contact other OOPs who live in their vicinity, etc. Answer N (No) if you do not wish your name put on this General List. If the answer is Y (Yes) or not answered at all, you will be put on the General List.